

KINGSVILLE DOME URANIUM MINE AREA DATA AND ANALYSIS (A Work in Progress)

Notes on TCEQ's Upper Control Limits



EPA, Region 6
Dallas, Texas

José Eduardo Torres
Petroleum Engineer
Chemical Engineer

VII-A-1 of the TCEQ permit dated on January 11, 1990, issued to URI

VII. Special Provisions

A. Control Parameters and Upper Limits

Conductivity, uranium and chloride shall be used as control parameters. Upper limit values will be calculated for the Production and Non-Production Zones as follows:

1. Add a value of 5 mg/l to the maximum uranium value determined on the Baseline sampling of the Mine Area Wells and the Production Area Wells of the Production Area being authorized.

TCEQ's Area Permit UR03075 - Goliad Project – In-Situ Uranium Mine - From Page 3 of Document

Provision V.E:

E. Monitoring Parameter Upper Limits

1. Chloride, conductivity, and total dissolved solids shall be used as control parameters in monitoring for excursions of mining solutions from each production area. Upper limit concentrations that indicate the presence of an excursion shall be calculated for the production zone by adding 25% to the maximum values determined in the sampling of the production zone wells for each production area.
2. In the event of an excursion, as defined in provision V.G.2. of this permit and in 30 TAC §331.2, monitoring for uranium and radium²²⁶ shall be required. Sampling and analysis for uranium and radium²²⁶ shall be in accordance with provision V.G.2. of this permit.

TCEQ dropped Uranium Concentrations from the control parameters list.

Provision V.G.2:

2. Excursions

- a. An excursion (defined by 30 TAC § 331.2 as the movement of mining solutions into a designated monitor well) is indicated by the sampled concentration of any control parameter provided in Section V.E.1. of this permit being equal to or above the upper limit established for the applicable PAA. Within two days of detecting an apparent excursion, the permittee shall repeat the sampling and complete a verifying analysis of the samples taken from each apparently affected well in accordance with 30 TAC §331.105(3).
- b. If the verifying analysis confirms the existence of an excursion, the permittee shall notify the Field Operations Division, Region 14 – Corpus Christi Office, by the next working day by telephone and by letter postmarked within 48 hours of identification of the excursion. The notification must identify the affected monitor well and the control parameter concentrations.
- c. While mining solutions are present in a designated monitor well, the permittee shall conduct sampling and analysis of each affected well at a frequency of at least two times per week in accordance with 30 TAC §331.105(4).
- d. Reporting shall be monthly according to 30 TAC §331.85(f) (by the second day after each sample is taken). Parameters analyzed and reported during periods of excursions shall consist of the control parameters specified in Provision V.E.1 of this permit plus uranium and radium²²⁶ as specified in Provision V.E.2. of this permit.

